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STATE OF WASHINGTON

DEPARTMENT CHECOLOGY

7601 W. Clearwater, Sur e 1/12 K. Con W. Co. Martington 99336 • (509) 546-2990

March 5, 1993

Mr. Dennis Faulk U. S. Environmental Protection Agency 712 Swift Boulevard, Suite 5 Richland, WA 99352

Dear Mr. Faulk:

Enclosed you will find a copy of the data obtained from sampling events in the Riverland Rail Wash Station, Expedited Response Action (ERA). Two samples were obtained from surface soils at the "Homestead Site" and the "Munitions Cache." These two samples were split samples taken with Westinghouse Hanford Company.

These data are also being transmitted to the Administrative Record, as agreed to by Ecology and the Environmental Protection Agency (EPA) on October 26, 1992.

Enclosed with this letter are also a Data Summary Table (Enclosure 1), a Field Log Summary (Enclosure 2), a Data Verification Summary (Enclosure 3), and the Chain-of-custody forms (Enclosure 4). Enclosure 5 is the complete analytical data package. Due to its size, Enclosure 5 will only be transmitted to the Administrative Record and EPA.

If you have any questions, please call me at 736-3008.

Sincerely,

Billie Mauss

Eddie Maures

Chemist

Nuclear and Mixed Waste Management Program

BM:sl Enclosures

cc: Robert Stewart, DOE
Donna Wanek, DOE

George Hinkle, WHC

Administrative Record, WHC

Enclosure 1 Samples from Homestead by Riverland Rail Wash Pits

The following data have been verified for completeness.

approximately and approximately approximatel

<u>Contaminant</u>		<u>H92077</u>			<u>H92078</u>	
			Q			Q
					<u></u>	-
Aldrin	mg/Kg	2.6	P		27*	D
Dieldrin	mg/Kg				38*	D
Endrin Ketone	mg/Kg				3.5	D
Chloride	mg/Kg	0.2 (at MD)	L)		0.6	
Fluoride	mg/Kg	0.2 (at MD	(L)			
% Total Solids %		95			93	
Aluminum	mg/Kg	11000		6290		
Arsenic	mg/Kg	11.0	SN		7.2	SN
Barium	mg/Kg	155			101	
Beryllium	mg/Kg	0.60	В		0.34	В
Calcium	mg/Kg	19300		10800		
Chromium	mg/Kg	1 6 . 1			9.8	
Cobalt	mg/Kg	11.3			9.0	В
Copper	mg/Kg	24.0			14.0	
Iron	mg/Kg	20700		14100		
Lead	mg/Kg	16.1			15.7	
Magnesium	mg/Kg	8870			4760	
Manganese	mg/Kg	589			381	
Nickel	mg/Kg	13.3			9.6	
Potassium	mg/Kg	2250			1810	
Sodium	mg/Kg	470	В		77.1	В
Thallium	mg/Kg				1.6	В
Vanadium	mg/Kg	33.2			25.5	
Zinc	mg/Kg	57.8			38.8	

Analysis did not detect any CLP Volatiles, CLP Semivolatiles, Chlorinated Herbicides, Nitrite, Nitrate, Phosphate, TPH - gas, or TPH - diesel above the method detection levels (MDLs).

^{*} Also detected on Semivolatile Organics Analysis

ENCLOSURE 2 RIVERLAND ERA ACTIVITY AND SAMPLING SUMMARY

October 28, 1992

Ecology arrived at the Riverland Rail Yard Site within the boundary of the 100-IU-1 Operable Unit as part of the Riverland Expedited Response Action (ERA). The Riverland Site, covering thirteen square miles, is west of Highway 240 and north of Highway 24, in the northwest corner of the Hanford Site. Ecology was present in the capacity as the support agency to observe the sampling events associated with the Riverland ERA.

Sampling was performed by Westinghouse Hanford Company (WHC) on October 28, 1992 to determine the extent or absence of radiological contamination. Radiological contamination was suspected within the four maintenance pits, which discharged into a common drain line. Two of the four maintenance pits were sampled on October 28, 1992 by WHC.

October 29, 1992

WHC completed sampling of the remaining two maintenance pits. In addition to the maintenance pit samples, one soil sample was taken from inside the common drain line prior to connecting to a main sewer line. This was possible due to some minor damage to the drain line, allowing an internal soil sample to be acquired. During all sample events, no radiological contamination was detected using field screening equipment.

After completing activities at the Riverland Rail Yard, WHC and Ecology sampled the remaining two potential waste sites identified as the Munitions Cache and Homestead Site (Pesticide/Herbicide Site). Ecology obtained split soil samples from each location in conjunction with WHC's sampling team with the exception of volatile samples, which were sampled randomly and individually. The following list summarizes the samples obtained by Ecology.

Time	Ecology/WHC Sample ID	Location	Analyses
1253	H92077/B01937	Munitions	Volatiles (VOA)
1303	н92077/в01937	Munitions	Semi-VOA's Pesticides TPH, PCB's (1)
1306	Н92077/В01937	Munitions	Semi-VOA's Pesticides TPH, PCB's (1)
1308	н92077/В01937	Munitions	Metals/Anions
1405	H92078/B01939	Homestead	Volatiles (VOA)
1413	Н92078/В01939	Homestead	Semi-VOA's Pesticides TPH, PCB's (1)
1415	Н92078/В01939	Homestead	Semi-VOA's Pesticides TPH, PCB's (1)
1417	H92078/B01939	Homestead	Metals/Anions

Note 1: TPH (Total Petroleum Hydrocarbons), PCB (Polychlorinated Biphenyl)

Signature/Position/Title/Date

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ENCLOSURE 3 DATA VERIFICATION SUMMARY

1. The A. A. St. Call

This report summarizes the data collected from the sampling event at the Riverland Rail Wash Station, Expedited Response Action. Ecology obtained two sample splits from Westinghouse Hanford Company; one at the Homestead Site and one at the Munitions Cache.

The samples were sealed and placed in tamper proof containers pending radiochemical analysis at the 222-S Building Annex. The samples were described as H92077, H92078, and H92089 (trip blank), by Ecology, which correspond to the Westinghouse Hanford identification numbers of BO1937 and BO1939. All samples were analyzed for radioactivity; the total activity for each was less than 50 pCi/G.

The samples were taken on October 29, 1992, and received by Pace Incorporated on November 2, 1992. Washington State Department of Ecology received the data packages on January 25, 1992 and started the verification process on March 1, 1993. The packages were complete with the exception of the raw data and calibrations for anions. A phone request was made on March 2, 1993, for the missing items. These data were received via Federal Express on March 5, 1993 and incorporated into the data package.

Verification was completed on March 5, 1993 with all laboratory data requested duly reported. Appropriate protocol was implemented and the laboratory performance rated satisfactorily.

Jerry Yokel

Chemist

Date

ENCLOSURE 4

Chain-of-Custody Form



T.A. E 5446 > M. 2077

T.A. = 5947 > H92078

CHAIN-OF-CUSTODY	RECORD
Analytical Request	

Address 7001 W. CHEARWATER #102	Report To: Billie Maus's	Pace Client No.
Address 7001 W CHERWATER 102	Bill To:	Pace Project Manager
hennew.ck, wH. 49336	P.O. # / Billing Reference	Pace Project No.
Phone >0 9) 546-2490	Project Name / No.	*Requested Due Date:
Sampled By (PRINT): Jeven L. Arbazast Sampler Signature Date Sampled 10-29-92	O CONTAINER SERVATIVES REQUEST REQUES	REMARKS
1 H92077 2 H92089 3 H92078 4	HX X X X X X X X X X X X X X X X X X X	TEN BLANK
8 COOLER NOS. CO	NEO DATE HUMBER RELINCOISMED BY APPLLIATION AC	CEPTED BY / AFFILIATION DATE TIME
Additional Comments	12.3 /2/ Why was 12.3 /2/ Why woos	1.4.15 WAS 10-63, 12:50